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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/688,609	10/13/2000	Armando Montalvo	PD-990304	9945
20991 THE DIRECT	7590 12/31/200° V GROUP, INC.		EXAM	IINER
PATENT DOCKET ADMINISTRATION		ION	SHERKAT, AREZOO	
CA / LA1 / A1 P O BOX 956	·		ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			12/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

AL

	Application No.	Applicant(s)
	09/688,609	MONTALVO, ARMANDO
Notice of Allowability	Examiner	Art Unit
	Arezoo Sherkat	2131
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to 5/3/2007.		
2. The allowed claim(s) is/are 1 and 3-10.		
<ol> <li>Acknowledgment is made of a claim for foreign priority ur         <ul> <li>All b)</li></ul></li></ol>	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner' Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1)</li> </ol>	son's Patent Drawing Review (PTO-  's Amendment / Comment or in the C 1.84(c)) should be written on the drawi	Office action of ngs in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL i	must be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ul> <li>5. ☐ Notice of Informal F</li> <li>6. ☒ Interview Summary Paper No./Mail Da</li> <li>7. ☒ Examiner's Amenda</li> <li>8. ☐ Examiner's Statema</li> </ul>	(PTO-413), te <u>5/22/2007</u> .
or biological Material	9.	AYAZ SHEIKH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100

## **Detailed Action**

This office action is responsive to the board of patent appeals and interferences received on 5/3/2007. Based on the board's decision, Examiner's rejection of claims 1 and 3-10 is affirmed and the rejection of claim 2 is reversed.

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Georgann S. Grunebach on 5/21/2007. The application has been amended as follows:

- 1. (Currently Amended) A virtual biological fluid system for secure communications, said system comprising:
  - a plurality of communication layers, and
- a security control plane coupled to and formed using information from each of said plurality of communications layers, whereby said security control plane in conjunction with said security information forms a virtual biological fluid insuring secure data transmission;
- a primary gateway having security information, wherein at least one station is in communication with said primary gateway;

Application/Control Number: 09/688,609 Page 2

Art Unit: 2131

a satellite in orbit and in communication with said primary gateway and said at least one station, and said security control plane is on board said satellite.

# 2. (Cancelled)

- 3. (Original) The system as recited in claim 1, wherein at least one of said plurality of communication layers is an application layer.
- 4. (Original) The system as recited in claim 1, wherein at least one of said plurality of communication layers is a presentation layer.
- 5. (Original) The system as recited in claim 1, wherein at least one of said plurality of communication layers is a session layer.
- 6. (Original) The system as recited m claim 1, wherein at least one of said plurality of communication layers is a transport layer.
- 7. (Original) The system as recited in claim 1, wherein at least one of said plurality of communication layers is a network layer.
- 8. (Original) The system as recited in claim 1, wherein at least one of said plurality of communication layers is a data link layer.

Application/Control Number: 09/688,609 Page 3

Art Unit: 2131

9. (Original) The system as recited in claim 1, wherein at least one of said plurality of communication layers is a physical layer.

10. (Currently Amended) A method for secure communications over a network, said method comprising the steps of:

generating security data;

forming a security control plane using information from each of a plurality of communication layers, said security control plane coupled to said plurality of communication layers;

forming a virtual biological fluid using said security control plane in communication with said security data, whereby secure data transmission between a ground gateway and a station may occur, wherein said security control plane is on board a satellite in orbit, in communication with said ground gateway and said station; and

communicating secure data between said ground gateway and said station.

### Allowable Subject Matter

Claims 1 and 3-10 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arezoo Sherkat whose telephone number is (571) 272-3796. The examiner can normally be reached on 8:00-4:30 Monday-Friday.

Application/Control Number: 09/688,609

Art Unit: 2131

Page 4

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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A.S. Patent Examiner Group 2131

5/22/2007

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